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NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER

**PHOTOGRAPHIC  
INTERPRETATION  
REPORT**

**NAVAL BASE AND OUTER HARBOR CONSTRUCTION  
VISA KHAPATNAM, INDIA**

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## NAVAL BASE AND HARBOR CONSTRUCTION

## VISAKHAPATNAM, INDIA

## ABSTRACT

1. The Visakhapatnam Naval Base is being expanded into a major Indian naval facility. When completed, construction will increase the berthing space to approximately 2,951 meters (9,686 feet) or almost eight times the present berthing capacity of the facility.

2. The Visakhapatnam Harbor is also being expanded with the construction of a new outer harbor. When construction is completed, the harbor will be capable of handling ships of 100,000 DWT and probably will rank with Bombay and Calcutta as one of India's major commercial ports.

3. This report describes construction at the naval base and the outer harbor as derived from high-resolution photography [redacted]. It includes photographs of the naval base and harbor and mensural and reference data.

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## INTRODUCTION

4. Visakhapatnam is located in the central portion of the east coast of India on the Bay of Bengal.

5. Visakhapatnam Naval Base [redacted] formerly the Visakhapatnam Probable Submarine Base Under Construction, is located in Visakhapatnam Harbor, approximately 2.0 nautical miles (nm) southwest of the center of the city at 17-42-00N 083-16-30E. Expansion at the naval base was first seen on photography [redacted]

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[redacted] showed that new construction was still in an early-to-mid stage, but when complete will include the addition of a dockyard, new quays, and new support facilities. The former probable submarine base was being expanded into a major naval base, possibly the second largest in India, and the largest on the east coast.

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6. Visakhapatnam Outer Harbor [redacted] under construction, is located in the Bay of Bengal approximately 2.0 nm south of the center of the city at 17-41-20N 083-17-50E. High-resolution photography [redacted] showed the new construction to be in an early stage, but when complete will include a pier/breakwater, a breakwater, and a quay.

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## BASIC DESCRIPTION

## Visakhapatnam Naval Base

7. Present operational berthing space at the Visakhapatnam Naval Base includes [redacted] quay. When new construction is complete, berthing space at the expanded facility will be increased to approximately [redacted]. This expansion includes a dockyard and new quay construction north of the original base area along the northwest branch of Visakhapatnam Harbor (Figure 1).

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8. The dockyard under construction, immediately adjacent to the operational quay, included four berthing inlets separated by three piers almost at right angles to the northwest branch of Visakhapatnam Harbor. One of the piers was nearly complete [redacted]

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[redacted] The new quay construction was indicated by caissons in place north of the dockyard. This construction included [redacted] quay parallel to the northwest branch of the harbor, [redacted] of quay westward from the north end of the northwest branch of the harbor. A considerable amount of earth removal and dredging will be required before the new facilities are fully operational.

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9. Support facilities included one large multiwing headquarters/command center under construction; four large multistory administration buildings; 12 administration support buildings; four probable large machine shops/ship support buildings (one in the very early stage of construction); a barracks area containing ten barracks, an administration building, a messhall and two support buildings; seven storage buildings (one drive-through); one motor pool with four vehicle maintenance buildings, 12 support buildings (two under construction); one water tower and one swimming pool. Also scattered throughout the base were approximately 90 small construction support buildings and 12 construction support barracks.

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## Visakhapatnam Outer Harbor

10. The activity at Visakhapatnam Outer Harbor (Figure 2) included a pier/breakwater under construction, which was approximately 435 meters (1,320 feet) long [ ] located 1.0 nm northeast of the inner harbor entrance. Just north of the inner harbor entrance, land was being reclaimed for the construction of a probable quay. Approximately 0.5 nm to the south, caissons were being laid for a second breakwater. The construction support area is located on the south side of the inner harbor channel and contains a batch plant for caisson construction (approximately 800 are stockpiled), a motor pool, three berths for dirt scows, and a berth for loading caissons onto lighters. The dirt for the quay, breakwater, and pier is taken from a borrow pit just east of the support area.

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## Other Facilities

11. Other facilities within Visakhapatnam Harbor include Hindustan Shipyard, Ltd [ ] where a new graving dock 243.0 by 38.0 meters (797 by 125 feet) [ ] deep had just been completed; and the Naval Training Center [ ] where two administration/classroom buildings had been completed and a large probable barracks was under construction. Also within the harbor are the Visakhapatnam Port Facilities [ ] and the Visakhapatnam Port Facilities SW [ ]

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## REFERENCES

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## MAPS OR CHARTS

AMS MAP, Series 1501 Radar, Sheet NE 44-12, scale 1:250,000

## REQUIREMENT

NPIC/IEG/SGD/SAB Project 143342 NL

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